

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-331025

(43)Date of publication of application : 13.12.1996

(51)Int.Cl.

H04B 7/005  
H03H 21/00  
H03M 13/12  
H04B 3/14  
H04L 1/00  
H04L 1/06  
H04L 27/22

(21)Application number : 07-138102

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(22)Date of filing : 05.06.1995

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## (54) ADAPTIVE INTERFERENCE CANCELLATION RECEIVER

(57)Abstract:

PURPOSE: To eliminate an equi-level interference signal and an unknown interference signal.

CONSTITUTION: Transversal filters FFF1-FFFNb apply weighting to received signals by antennas 1-1 to 1-Nb and a synthesis means 3 synthesizes the weighted signals and an error estimate means 4 subtracts an estimated desired signal and an estimated interference signal from the synthesis signal to obtain a likelihood from the estimated error, and a state estimate means 6 estimates a desired signal series and an interference signal series by taking a state transition into account.

Furthermore, a desired signal estimate means 8 and interference signal estimate means 7-1 to 7-N generate an estimate desired signal and an estimate interference signal and a parameter control means 9 update each tap coefficient of the estimate means 8, the interference signal estimate means 7-1 to 7-N and the filters FFF1-FFFNb based on the estimate error and the estimate signal series.

